

**PHILIPS**

Fortimo

LED system

DLM Flex 2000 lm



## Datasheet

# A new generation solution for downlight applications

### Fortimo LED DLM Flex 2000 lm

The Fortimo LED DLM Flex is a new generation solution for downlight applications. It is a product in line with the Fortimo brand promise of light quality and a smart system. We provide you with a system proposition ranging from 1100 lm to 5000 lm in preset outputs, with the flexibility to tune as per your needs.

This module is available in the following options. Apart from the nominal value, the module can be operated at different currents. More information about such tuning can be found further on in the document.

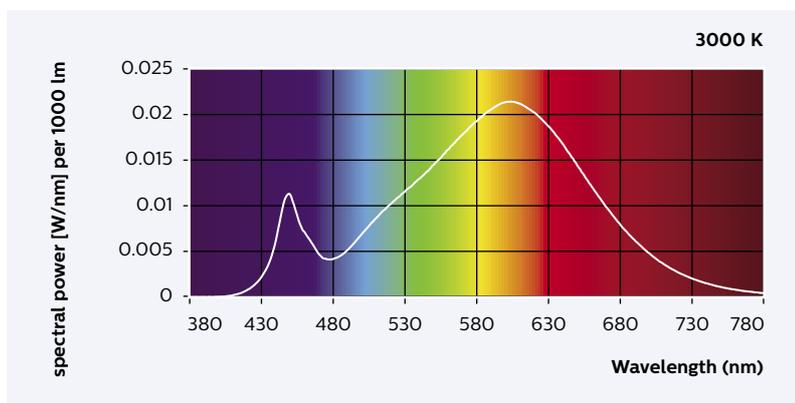
Commercial product name	Type	EOC	12NC
Fortimo LED DLM Flex 2000/830 Gen1	LED board	8718291 797258 00	92900 0907 606
Fortimo LED DLM Flex 2000/840 Gen1	LED board	8718291 797272 00	92900 0907 706
Fortimo LED DLM Flex Cover	Shallow housing	8718291 797456 00	92900 0908 506
Fortimo LED DLM Flex High Cover	High housing	8718696 421178 00	92900 0927 806
Fortimo LED DLM Flex cable 600 mm	Cable	8718696 421192 00	92900 0910 706

## Optical characteristics - table per CCT

### Fortimo LED DLM 2000 lm 830

Parameter	LED board	With Shallow Housing	With High Housing	Unit
Typical Luminous Flux	2326	2000	2000	lm
Module Efficiency	129	111	90	lm/W
Nominal Current	530	530	640	mA
Rset2	1240 (On board)	1240 (On board)	1620	$\Omega$
Correlated Colour Temperature	3000	3000	3000	K
Colour Consistency	3	3	3	SDCM
CRI	>80	>80	>80	-
Radiation Angle		94	108	deg
Thermal Power	10.8	11.8	15.9	W
Energy efficiency label	A+	A+	A	-

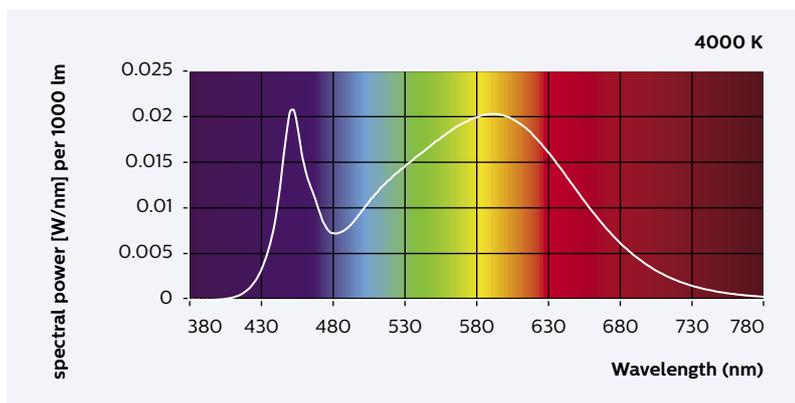
Note: Specifications stated at Tc nom = 75 °C



### Fortimo LED DLM 2000 lm 840

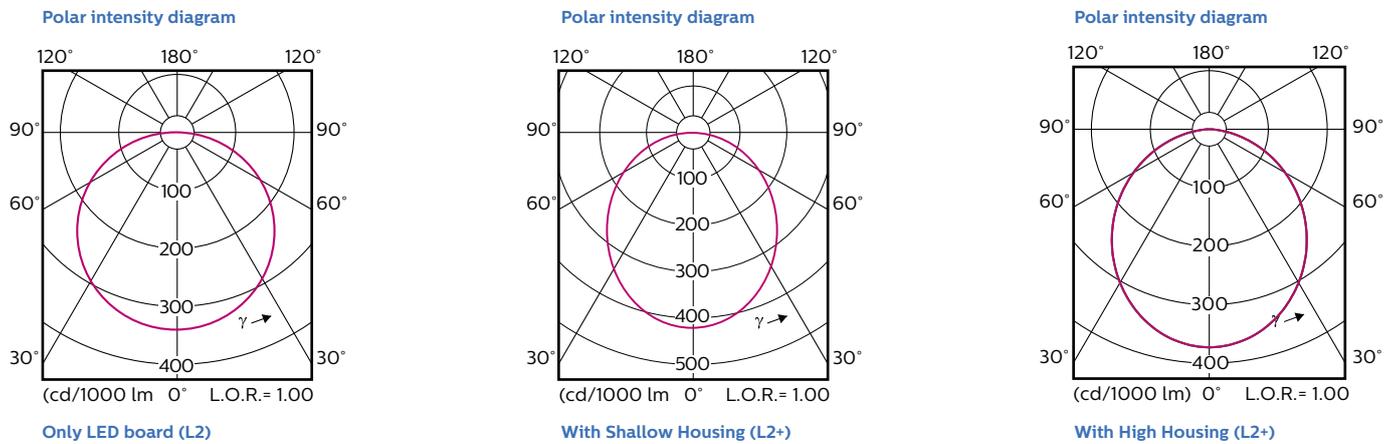
Parameter	LED board	With Shallow Housing	With High Housing	Unit
Luminous Flux	2326	2000	2000	lm
Module Efficiency	141	121	100	lm/W
Nominal Current	480	480	580	mA
Rset2	1070 (On board)	1070 (On board)	1430	$\Omega$
Correlated Colour Temperature	4000	4000	4000	K
Colour Consistency	3	3	3	SDCM
CRI	>80	>80	>80	-
Radiation Angle		94	108	deg
Thermal Power	9.4	10.4	14.0	W
Energy efficiency label	A+	A+	A+	-

Note: Specifications stated at Tc nom = 75 °C



## Beam shape

The Philips Fortimo LED DLM generates a Lambertian beam shape, which is a pragmatic starting point for OEMs wishing to design secondary optics.



## Electrical characteristics

### Fortimo LED DLM 2000 lm 830

Parameter	Typ (Shallow Housing)	Typ (High Housing)	Unit
Nominal current	530	640	mA
Forward voltage	34.4	34.8	V
Power consumption	18.1	22.2	W

Note: Specifications stated at Tc nom = 75 °C

### Fortimo LED DLM 2000 lm 840

Parameter	Typ (Shallow Housing)	Typ (High Housing)	Unit
Nominal current	480	580	mA
Forward voltage	34.3	34.6	V
Power consumption	16.5	20.1	W

Note: Specifications stated at Tc nom = 75 °C

## Lifetime

Parameter	Min	Typ	Max	Unit
Lumen maintenance B50L70	60,000			hours

Note: Specifications stated at Tc nom = 75 °C and nominal current

Parameter	Nominal *	Max**
Tc [°C]	75	85

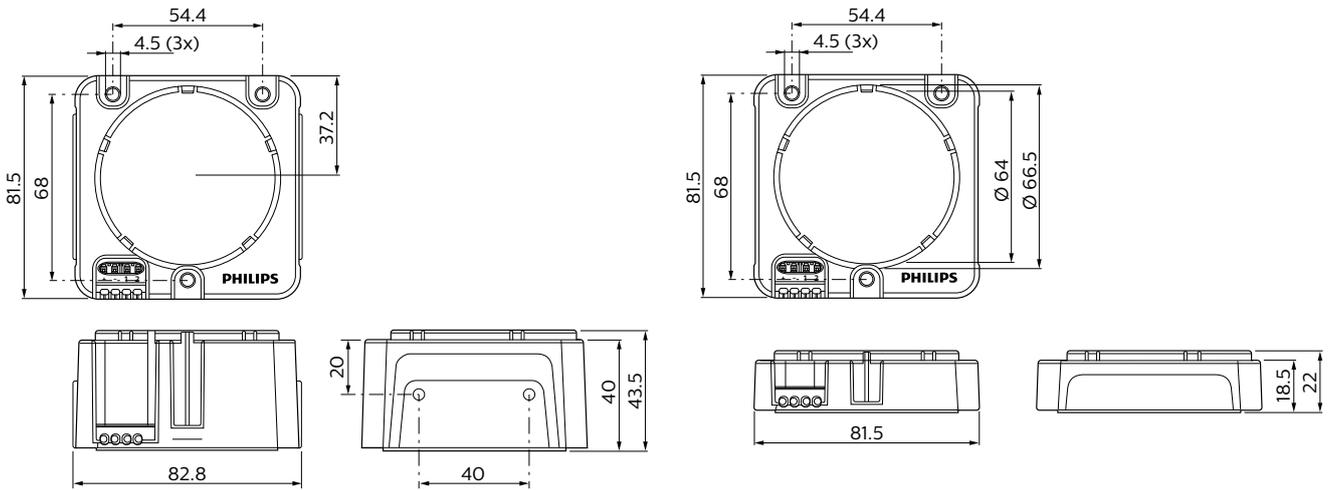
\* Nominal value at which performance is specified

\*\* Maximum value for safety

## Abs max ratings

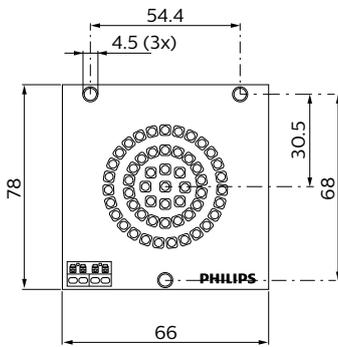
Parameter	Min	Max	Unit
Current I <sub>max</sub>		1200	mA
Case temperature T <sub>c max</sub>		85	°C
Human Body Model (HBM) Class 2A JS-001-2012		1	kV
Storage temperature	-40	100	°C

## Mechanical characteristics



High housing

Shallow housing



LED board

## Application information

### Compliance and approval

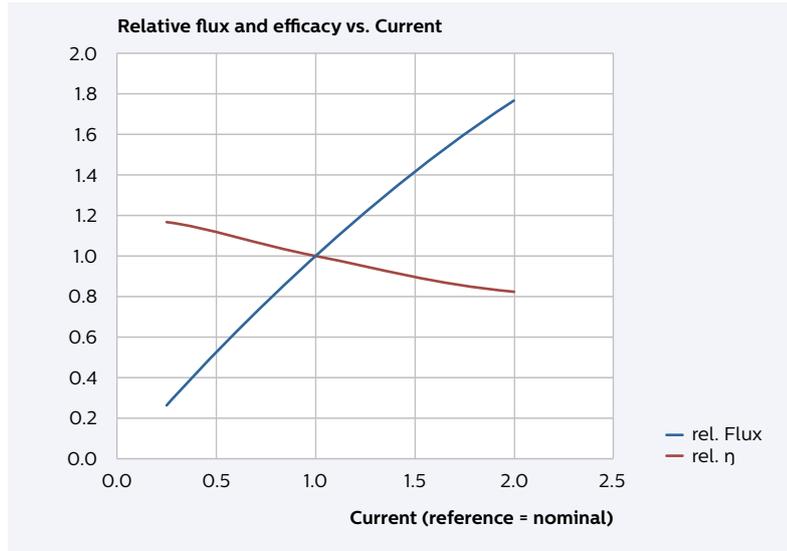
IEC/EN 62031, IEC 62471

### Application information

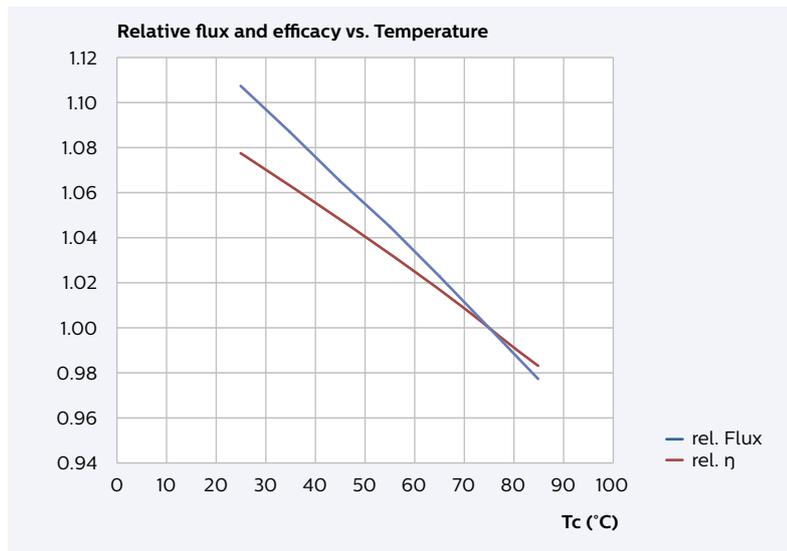
IP rating	No IP rating
Overheating protection	No protection

## Tuning information

### Flux and efficacy versus current (at nominal temperature) 2000 lm

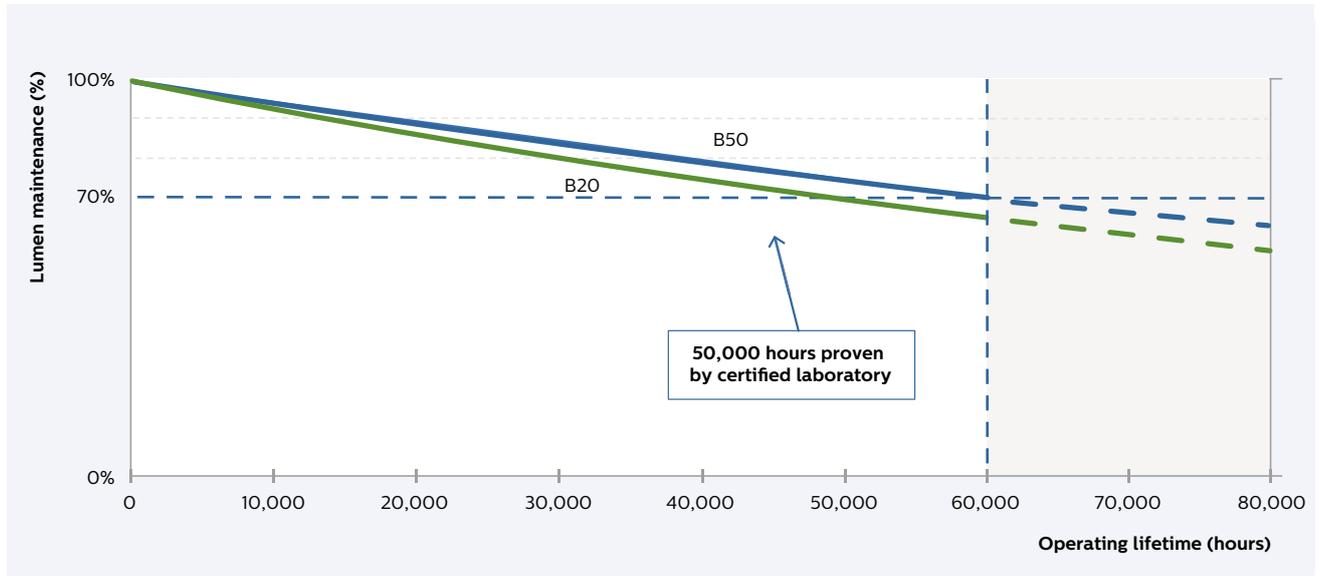


### Flux and efficacy versus temperature at T<sub>c</sub> (at nominal current) 2000 lm

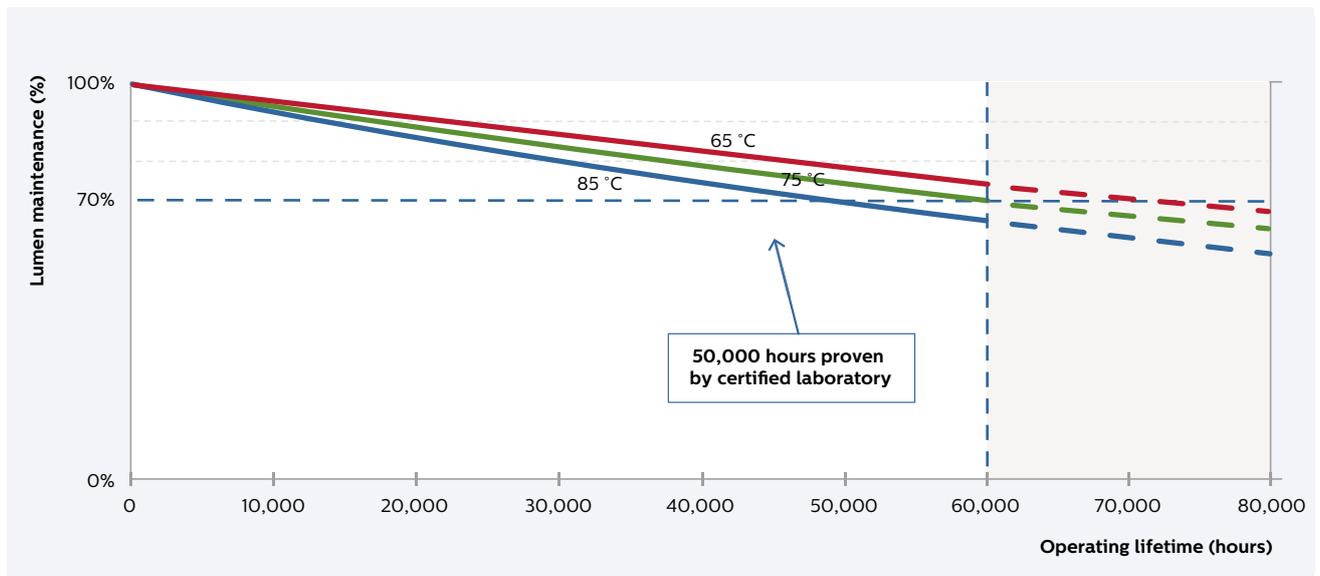


# Lumen maintenance

Lumen maintenance: Nominal Conditions  
Fortimo LED DLM 2000 lm



Lumen Maintenance B50: Nominal Current  
Fortimo LED DLM 2000 lm





© 2014 Royal Philips N.V. All rights reserved. Philips reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication.

[www.philips.com/technology](http://www.philips.com/technology)  
[www.philips.com/fortimo](http://www.philips.com/fortimo)  
[www.philips.com/xitanium](http://www.philips.com/xitanium)